In floy warshall algorithm we can find shortest path form every node to every other node using a grid.

If costing of any node to itself is less than zero it means we have a negative cycle.

In below code example we are assuming that we have an adjacency matrix. We can have adj list as well for input.

We can use Dijsktra in place of floyd warshall and it'll result in V * E * log V time complxity. However, we won't be able to handle the negative edges

Floyd warshall has N^3 time complexity and N^2 space complexity for matrix.